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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/866,245	05/25/2001	Nanami Miki	450100-03244	4576
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FROMMER LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL.			LAYE, JADE O	
NEW YORK,			ART UNIT	PAPER NUMBER
•			2617	
			DATE MAILED: 09/09/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/866,245	MIKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jade O. Laye	2614				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days rill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONET	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 05 Au	iaust 2005.	,				
<u> </u>	action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-22 is/are rejected. 7) ⊠ Claim(s) 2-10 and 12-22 is/are objected to. 8) □ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine	f.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of the priorical statement of t	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		atent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

1. Claims 1, 2, 6, 11-13, 19, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by *Schein et al.* (US #6,133,909).

As to claim 1, *Schein* discloses a method of searching an EPG database (Col. 1, Ln. 49-56), wherein, via an interface, a user can enter certain attributes (i.e., keywords) (Col. 2, Ln. 18-23), which retrieve information relevant to the entered keyword from the EPG database. (Col. 12, Ln. 66-67 thru Col. 13, Ln. 1-20 & 33-48). Once the relevant information is retrieved, the user selects the desired EPG data. (Col. 13, Ln. 33-48). It's inherent that a "dictionary database"

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must be contained within the system of Schein. Any system, which allows the user to enter

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keywords used to retrieve relevant information from the system, must contain a database

containing said relevant information. Moreover, the database is accessed based upon the input

retrieval keyword and the subsequent subcategory information (i.e., extracted relevant-keyword

information) because each is used to retrieve the suggested and/or requested program from the

database. Accordingly, each and every limitation of applicant's claim 1 has been anticipated by

Schein.

Claim 11 is an apparatus claim corresponding to the method claim 1, and is analyzed and

rejected as previously discussed.

As to claim 2, Schein discloses a method in which the EPG system database stores

information relevant to television programs, such as movie titles and directors. (Col. 13, Ln. 33-

36). The user can access this information by entering relevant characters or words, which

correspond to the desired program to be located. (Col. 13, Ln. 36-48). Therefore, it is inherent

that said database contain keywords and words relevant to those keywords, in order to match

corresponding terms in response to a user request. Accordingly, each and every limitation of

applicant's claim 2 has been anticipated by Schein.

As to claim 6, Schein discloses a method wherein the retrieval keywords and the relevant-

keyword information extracted from the database are interrelated to each other. (Col. 13, Ln. 1-

20 & 33-48). Accordingly, each and every limitation of claim 6 is anticipated by Schein.

As to claim 12, Schein's system contains a database, which could be located in the set-top

box, television, or the like (i.e., client side). (Col. 9, Ln. 21-36). Accordingly, each and every

limitation of claim 12 has been anticipated by Schein.

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As to claim 13, *Schein* teaches a system containing a database, which could be accessed via the internet (i.e., data server side). (Col. 8, Ln. 62-67 thru Col. 9, Ln. 1-9). Accordingly, each and every limitation of claim 13 has been anticipated by *Schein*.

As to claim 19, *Schein*'s EPG includes data relevant to movie information. (Fig. 10). Accordingly, each and every limitation of claim 19 is anticipated by *Schein*.

As to claim 20, *Schein*'s EPG includes data relevant to drama information. (Col. 12, Ln. 17-20). Accordingly, each and every limitation of claim 20 is anticipated by *Schein*.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any

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evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 3, 8-10, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Schein* in view of *Beach et al.* (US Pub. #2003/0014753).

Applicant's claim 3 recites the EPG method of claim 1, wherein the retrieval keyword is the name of a person and the relevant information extracted from the database is one of or a combination of a nickname of said person, the full name of said person, the given name of said person, the name of a group relevant to said person, or another well-known name of said person. As discussed above under paragraph 1, *Schein* contains all limitations of claim 1, but fails to disclose a method, which performs the limitations of claim 3. However, within the same field of endeavor *Beach* discloses an EPG wherein a name could be used as a keyword (Fig. 5). Also, the system can be modified to search any program attribute which could be indexed. (Page 2, Par. [0019]). All of said "relevant-keyword information" listed in applicant's claim 3, could potentially be indexed within *Beach*'s system. Accordingly, it would have been obvious to one ordinarily skilled in this art at the time of applicant's invention to combine the EPG system of *Schein* with the expanded indexing capability of *Beach* in order to provide a more extensive and flexible database from which the user could retrieve desired programming.

Applicant's claim 8 recites the EPG of claim 1, wherein the retrieval keyword belongs to a particular genre (category), while the relevant keyword information belongs to a different

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genre. As discussed above, *Schein* contains all limitations of claim 1, but fails to disclose the limitations of claim 8. However, within the same field of endeavor, *Beach* discloses a system in which a user can search an actor's name (genre of actor's names) and the system will retrieve all relevant information, which would include movies the actor appeared in (genre of movies). This, in essence, is a method of using a keyword from a certain genre, to retrieve relevant keyword information from a different genre. (Fig. 5 & 6; Page 2 Par. [0022]). Accordingly, it would have been obvious to one ordinarily skilled in this art at the time of applicant's invention to combine the EPG of *Schein* with the genre teaching of *Beach* in order to provide the user with a more flexible searching tool.

Applicant's claim 9 recites the EPG of claim 8, where when the particular genre is relevant to cooking, while the different genre is relevant to cooks. As discussed above, the combined teachings of *Schein* and *Beach* contain all limitations of claim 8. Specifying the genre as relevant to cooking, while the retrieval keyword is relevant to cooks is an obvious variant of claim 8 (because cooks and cooking could be categorized as different genres under the same logic of claim 8's rejection). Thus, *Schein* and *Beach* contain all limitations of claim 9. (Moreover, cooks and cooking are interrelated and therefore could be analyzed and rejected as based upon the teaching of *Schein* used to reject claim 6. Except here, of course, *Schein* would have to be used in a 103 combination with *Beach*).

Applicant's claim 10 recites the EPG of claim 8, wherein the particular genre is relevant to place names, the different genre is relevant to one of or a combination of neighboring city names, country names, and regional names. As discussed above, the combined teachings of *Schein* and *Beach* contain all limitations of claim 8, but fail to specifically state the limitations

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recited in claim 10. However, claim 10 is an obvious variant of claim 8 because both claims are

using a keyword from one genre to retrieve relevant keyword information from another genre.

(In the alternative, the recited limitations are interrelated and thus, could be analyzed and

rejected as in claim 6) Accordingly, the combined teachings of Schein and Beach contain all

limitations of claim 10.

Applicant's claim 14 recites the EPG system of claim 11, wherein said client downloads

and stores the program information. As discussed above, Schein contains all limitations of claim

11, but fails to teach whether the client is capable of downloading and storing program

information. However, within the same field of endeavor, Beach further discloses the client unit

is capable of downloading and storing program information. (Page 1, Par. [0018]). Therefore, it

would have been obvious to one ordinarily skilled in this art at the time of applicant's invention

to combine the EPG of Schein with the client side downloading/storing capability of Beach in

order to provide the client with an efficient method of storing EPG programming.

3. Claims 4 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schein in

view of Kanungo et al. (US #5,966,637).

Applicant's claim 4 recites the EPG method of claim 1, wherein the retrieval keywords

and the relevant keyword information is written in hiragana and/or katakana characters used in

Japanese writing. As discussed above, Schein contains all limitations of claim 1, but fails to

disclose a system capable of displaying Japanese language characters. However, within the same

field of endeavor, Kanungo discloses a system capable of displaying multilingual text on set top

boxes (Col. 3, Ln. 54-62), and specifically discusses hiragana and katakana characters. (Col. 1,

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Ln. 49-58). Accordingly, it would have been obvious to one ordinarily skilled in this art at the

time of applicant's invention to combine the EPG system of Schein with the multilingual set-top

box of Kanungo in order to provide the user with a system capable of searching and retrieving

information via the Japanese language.

Claim 17 is an apparatus claim corresponding to the method claim 4, and is analyzed and

rejected as previously discussed.

4. Claims 5 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Schein* in

view of Bohm et al. (US #5,404,507).

Applicant's claim 5 recites the method of claim 1, wherein when a misspelled retrieval

keyword corresponds to a misused character keyword stored in the database, only the relevant-

keyword information is used to perform the retrieval. As discussed above under paragraph 1,

Schein contains all limitations of claim 1, but fails to disclose the limitations of claim 5.

However, within the same field of endeavor, Bohm (also cited in applicant's IDS) discloses a

retrieval system capable of analyzing a misspelled search term. If the user misspells a search

term, the system retrieves probable alternative words stored on the database and presents them to

the user. The user then selects one of the alternative words in order to retrieve the original

desired data. (Col. 2, Ln. 11-29). Accordingly, it would have been obvious to one of ordinary

skill in this art at the time of applicant's invention to combine the EPG of Schein with the

database search capability of Bohm in order to provide a EPG searching method capable of

retrieving desired programming based upon an incorrectly entered search term.

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Claim 16 is an apparatus claim corresponding to the method claim 5, and is analyzed and rejected as previously discussed herein.

5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over *Schein* in view of *Beach* and further in view of *Livowsky*. (US #6,598,039).

Applicant's claim 7 recites the EPG of claim 1, wherein when part of a retrieval keyword is entered, the entire keyword and the relevant-keyword information are retrieved from a database storing previously input keywords in a predetermined order. As discussed above, Schein contains all limitations of applicant's claim 1, but fails to specifically disclose the limitations of claim 7. However, within the same field of endeavor, Beach discloses an EPG system whereby the system can retrieve keywords and relevant keywords based only upon entering a single character (i.e. part of a keyword). (Fig. 4, and Page 2 Par. [0021]), but fails to disclose whether the system is capable of storing previously entered keywords in a predetermined order. However, within the same field of endeavor, Livowsky discloses a method of searching a database, whereby the database "learns" from a user's past entries (i.e., keywords) and updates the database accordingly. (Col. 2, Ln. 26-33; Col. 8, Ln. 8-15). Therefore, it would have been obvious to one ordinarily skilled in this art at the time of applicant's invention to combine the modified teachings of Schein and Beach with the "learning" capability of Livowsky's database in order to provide the user with a more expansive and flexible searching tool, which would be capable of updating the database.

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6. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schein in view of

Livowsky. (US #6,598,039).

Applicant's claim 15 recites the EPG system of claim 11, wherein the client access a

necessary part of the data server via a routing server, which stores route information for the data

server. As discussed above, Schein contains all limitations of applicant's claim 11, but fails to

disclose the additional limitations of claim 15. However, within the same field of endeavor,

Livowsky discloses a searching database wherein the user accesses the desired portion of the

system database (i.e., data server) via a system server, which distributes (i.e., routes) the search

requests among core engines. (Col. 2, Ln. 44-57; Col. 4, Ln. 1-12 & 30-36). Accordingly, it

would have been obvious to one of ordinary skill in this art at the time of applicant's invention to

combine the EPG of Schein with the multiple server system of Livowsky in order to provide a

more efficient searching system.

7. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over *Schein* in view of

Lee et al. (US #6,463428).

Applicant's claim 18 recites the EPG system of claim 11, wherein said dictionary

database stores previously input keywords so that the input keywords are included in the

relevant-keyword information, and the stored keywords are arranged in order of frequency of

use. As discussed above, Schein contains all limitations of claim 11, but fails to teach the

limitations of claim 18. However, within the same field of endeavor, Lee et al discloses a system

capable of storing keywords and ranking them based upon their frequency of use. (Col. 5, Ln. 8-

16; Col. 15, Ln. 10-64; Fig. 18). Accordingly, it would have been obvious to one ordinarily

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skilled in this art at the time of applicant's invention to combine the EPG of *Schein* with the keyword storage capability of *Lee et al* in order to provide the user with a more efficient searching system.

8. Claims 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Schein*.

Applicant's claim 21 recites the EPG system of claim 11, wherein the program information includes data relevant to place names. As discussed above, Schein contains all limitations of claim 1. Specifically, Schein discloses a method of searching an EPG database (Col. 1, Ln. 49-56), wherein, via an interface, a user can enter certain attributes (i.e., keywords) (Col. 2, Ln. 18-23), which retrieve information relevant to the entered keyword from the EPG database. (Col. 12, Ln. 66-67 thru Col. 13, Ln. 1-20 & 33-48). Once the relevant information is retrieved, the user selects the desired EPG data. (Col. 13, Ln. 33-48). But, Schein fails to specifically disclose whether the program information retrieved can be relevant to place names. However, since Schein's system can retrieve any information contained on the database which is relevant to the keyword, it would have been obvious that this information could contain data relevant to place names if the user entered a keyword related to a place name. For example, if a user enters "Cowboys" as a keyword, Schein's system would likely retrieve a Dallas Cowboys football game to be played in Texas. Or, if a user were to input "geographic", Schein's system would likely retrieve any programs listed on the geography channel, some of which would be relevant to place names. In essence, would have been obvious that Schein's system could retrieve data relevant to place names because it is highly likely various programs listed on the

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database are related to or contain place names. Thus, *Schein* contains all limitations of applicant's claim 21.

Although claim 22 does not correspond to claim 21, it is analyzed and rejected accordingly because it contains the same elemental structure.

Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Rothmuller (US #5,635,989) discloses a method and apparatus for sorting and searching a television program guide.
 - b. McClard (US #6,438,752) discloses a method and system for selecting television programs based on the past selection history of an identified user.
 - c. Legall et al (US #6,005,565) disclose an integrated searching EPG guide for various programming resources
 - d. Burns et al (US #5,454,106) disclose a database retrieval system utilizing natural language to present understood components of an ambiguous search query.
 - e. Pederson et al (US #5,278,980) disclose an information retrieval system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jade O. Laye whose telephone number is (571) 272-7303. The examiner can normally be reached on Mon. 7:30am-4, Tues. 7:30-2, W-Fri. 7:30-4.

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supervisor, Chris Kelley can be reached on (571) 272-7331. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner: <u>Jade O. Laye</u>

September 2, 2005.

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